

What is claimed is:

1. A roller drive unit for conveying an object comprising
a drive motor;
- 5 a planetary gear with an input connected to the
drive motor and with a first gear output and a second gear
output;
- 10 a drive roller, which is connected to the first gear
output, to propel the object;
- 15 a lifting apparatus connected to the second gear
output, to lift the drive roller out of a retracted resting
position, in which the drive roller does not contact the
object, into a raised operating position in which the drive
roller can engage the object;
- 20 a first controllable brake to slow down the drive
roller; and
 a second controllable brake to keep the lifting
apparatus in place.
- 25 2. A roller drive unit as claimed in Claim 1,
wherein the first and the second brakes are both electrically
controllable.
3. A roller drive unit as claimed in Claim 1, wherein the
first brake is connected to the drive roller by way of a
first braking gear in such a way as to reduce the torque
acting on the first brake.
- 30 4. A roller drive unit as claimed in Claim 3, wherein
at least one of the first brake and the first braking gear
is installed within the drive roller.
- 35 5. A roller drive unit as claimed in Claim 1, wherein the
second brake device is connected to the lifting apparatus by
way of a second braking gear.

6. A roller drive unit as claimed in Claim 1, wherein the lifting apparatus comprises at least one rotatable lifting cam, which raises the drive roller directly.

5 7. A roller drive unit as claimed in Claim 1, wherein the lifting apparatus comprises at least one rotatable lifting cam, which raises the drive roller by way of a pivoted frame in which the drive roller is rotatably mounted.

10 8. A roller drive unit as claimed in Claim 1, wherein the lifting apparatus comprises a means to lower the drive roller from the operating position into the resting position.

15 9. A roller drive unit as claimed in Claim 1, wherein at least one of the first and the second brakes is constructed as a switchable brake with a blocking position and a release position.

2000 1000 800 600 400 200 100